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1	US 20060269009 A1	20061130		Transmission schemes for multi-antenna communication systems utilizing multi-carrier modulation	375/260	375/267
2	US 20060256843 A1	20061116	20	Method and apparatus for reducing interference in spread spectrum signals using spreading code cross-correlations	375/148	
3	US 20060251198 A1	20061109	1/4	Systems, methods, and apparatus for phase noise mitigation	375/350	375/340
4	US 20060245477 A1	20061102	9	CDMA reception method, device, and wireless communication system	375/148	375/260
5	US 20060203891 A1	20060914	23	Systems and methods for beamforming and rate control in a multi-input multi-output communication systems		375/260
6	US 20060203794 A1	20060914	21	Systems and methods for beamforming in multi-input multi-output communication systems	370/344	
7	US 20060188006 A1	20060824	9	Method and apparatus for estimating gain offsets for amplitude-modulated communication signals	375/148	375/320
8	US 20060062322 A1	20060323	20	Noise variance estimation in wireless communications for diversity combining and log-likelihood scaling	375/285	375/260
9	US 20060039331 A1	20060223	32	Multi-carrier CDMA radio transmitting method and apparatus, and channel estimation method and apparatus for multicarrier CDMA radio transmitting system	370/335	
10	US 20050265433 A1	20051201	68	Channel estimation device and method, demodulation device and method, and fading frequency decision device and method	375/148	
11	US 20050249304 A1	20051110	24	Wireless communication system, wireless communication apparatus, wireless communication method, and computer program therefor	375/267	375/347
12	US 20050238109 A1	20051027	43	Communication apparatus and communication method using digital wavelet multi carrier transmission system	375/260	

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14	US 20050180534 A1	20050818	11	Iterative estimation and equalization of asymmetries between inphase and quadrature branches in multicarrier transmission systems	375/350	
15	US 20050147025 A1	20050707	26	Apparatus and method for estimating a plurality of channels	370/203	375/267; 375/347; 455/101
16	US 20050135324 A1	20050623	20	Apparatus for OFDMA transmission and reception for coherent detection in uplink of wireless communication system and method thereof	370/343	
17	US 20050089124 A1	20050428	15	Method and system for estimating the doppler spread in radio mobile communication systems and computer program product therefor	375/346	
18	US 20050036538 A1	20050217	11	Method and apparatus for calculation of correction factors for path weights in a rake receiver	375/148	
19	US 20050020237 A1	20050127	10	Method and apparatus for transmitting signals in a multi-antenna mobile communications system that compensates for channel variations	455/403	455/562. 1
20	US 20040264591 A1	20041230	14	Method and system for M-QAM detection in communication systems	375/261	
21	US 20040233871 A1	20041125	30	Feedback control method and apparatus in closed-loop transmit diversity	370/331	370/249
22	US 20040185909 A1	20040923	10	Linear transformation of symbols to at least partially compensate for correlation between antennas in space time block coded systems	455/562. 1	
23	US 20040185792 A1	20040923	12	Method of compensating for correlation between multiple antennas	455/69	455/522; 455/91

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27	US 20040127257 A1	20040701	17	Apparatus, and associated method, for facilitating antenna weight selection utilizing deterministic perturbation gradient approximation	455/560	455/561
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29	US 20040082356 A1	20040429	85	MIMO WLAN system	455/522	
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31	US 20040028121 A1	20040212	60	Receiver processing systems	375/144	375/148
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37	US 20030043775 A1	20030306	20	Mobile communication terminal	370/342	370/441
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39	US 20030016645 A1	20030123	14	Method for optimal estimation of a propagation channel based solely on pilot symbols, and corresponding estimator	370/342	370/347; 370/519
40	US 20020196754 A1	20021226	32	Method and system for high-speed software reconfigurable code division multiple access communication	370/335	370/442
41	US 20020110109 A1	20020815	42	CDMA receiver	370/342	370/441
42	US 20020085623 A1	20020704	16	System, method and apparatus for wireless channel parameter estimation in spread spectrum communication systems	375/148	
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45	US 20010036812 A1	20011101	12	Bit error estimates from pilot signals	455/67.1 3	455/515
46	US 20010028637 A1	20011011	33	Multi-carrier CDMA radio transmitting method and apparatus, and channel estimation method and apparatus for multicarrier CDMA radio transmitting system	370/335	370/208
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48	US 7130580 B2	20061031	II <b>≼</b>	Method of compensating for correlation between multiple antennas	455/39	375/267; 375/299; 455/101; 455/115. 1; 455/562.
49	US 7095790 B2	20060822	20	Transmission schemes for multi-antenna communication systems utilizing multi-carrier modulation	375/260	370/210
50	US 7058002 B1	20060606	89	OFDM packet communication receiver	370/203	375/260
51	US 7012977 B2	20060314	16	System, method and apparatus for wireless channel parameter estimation in spread spectrum communication systems	375/346	375/144; 375/148; 455/296
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53	US 6904078 <sup>*</sup> B1	20050607	38	CDMA receiver and CDMA transmitter/receiver	375/141	375/148; 375/219; 375/232
54	US 6904076 B1	20050607	22	Interference canceller device and radio communication device	375/130	370/335; 375/148; 375/150; 375/346

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57	US 6842632 B2	20050111	16	Apparatus, and associated method, for	455/562. 1	455/67.1 1; 455/69
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63	US 6452936 B1	20020917	10	Spread-spectrum communication apparatus with adaptive frame configuration	370/441	370/320; 370/335; 370/342; 370/468
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